

FIG. 1

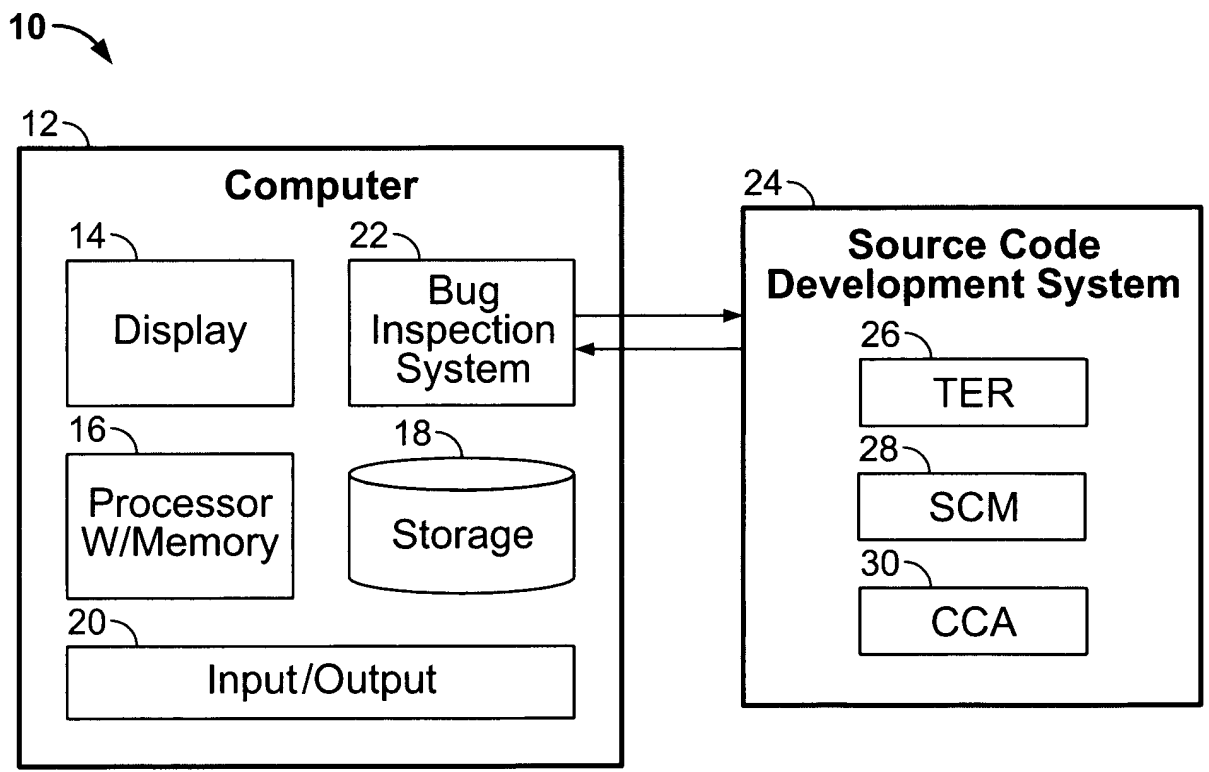


FIG. 2

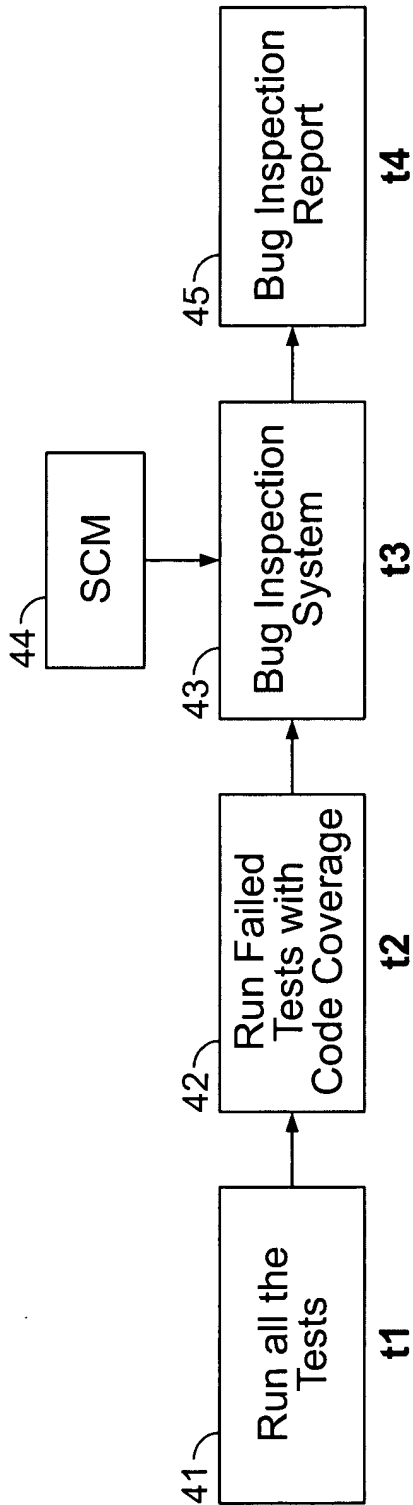


FIG. 3

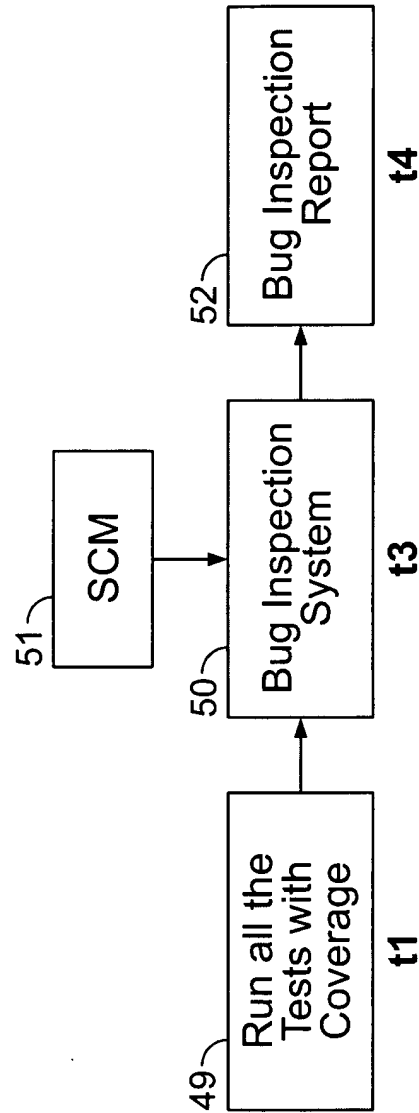


FIG. 4

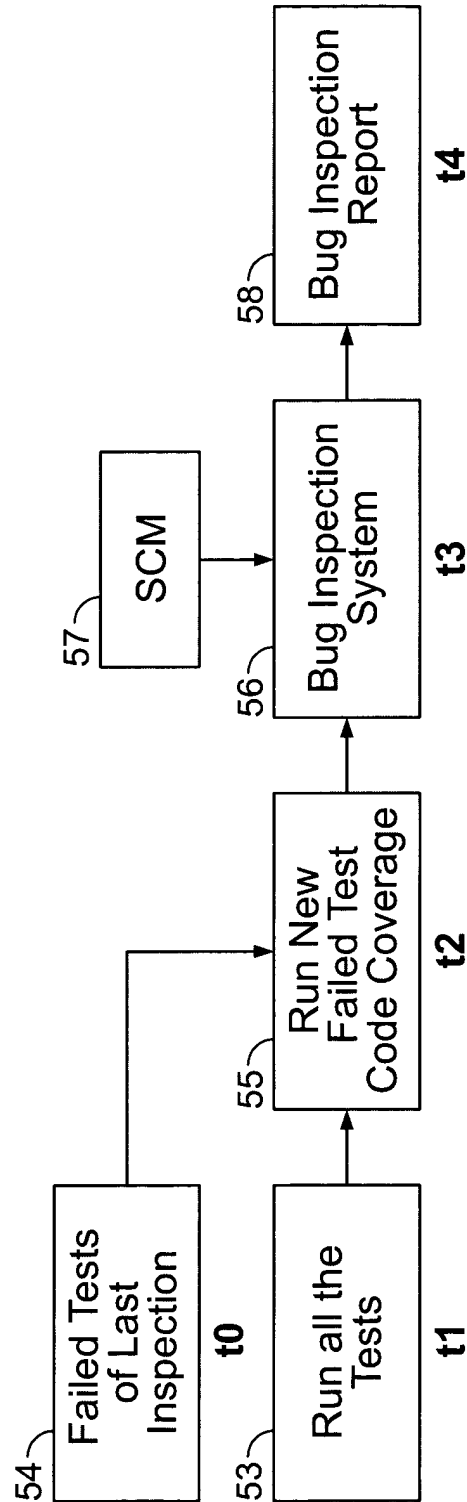


FIG. 5

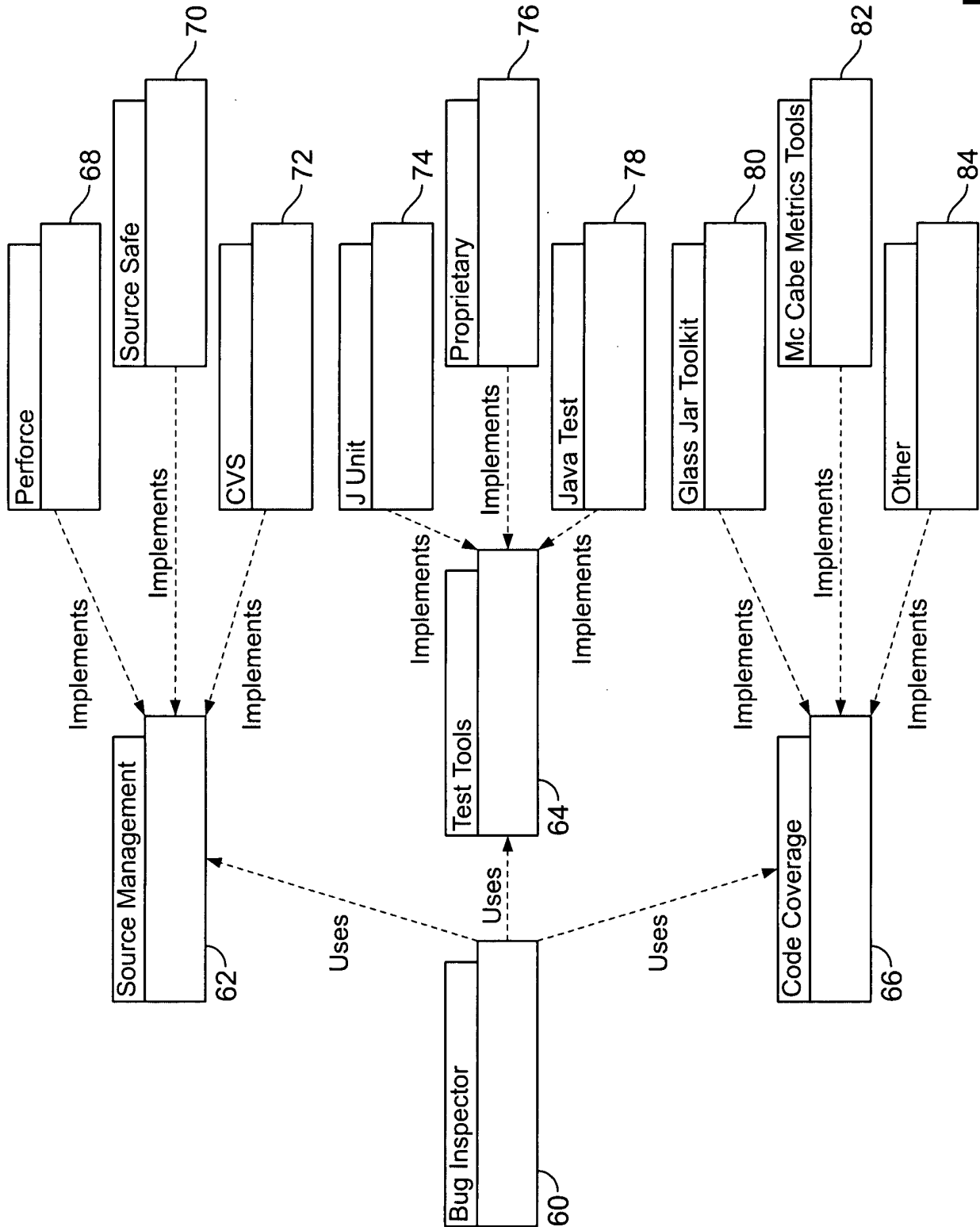


FIG. 6

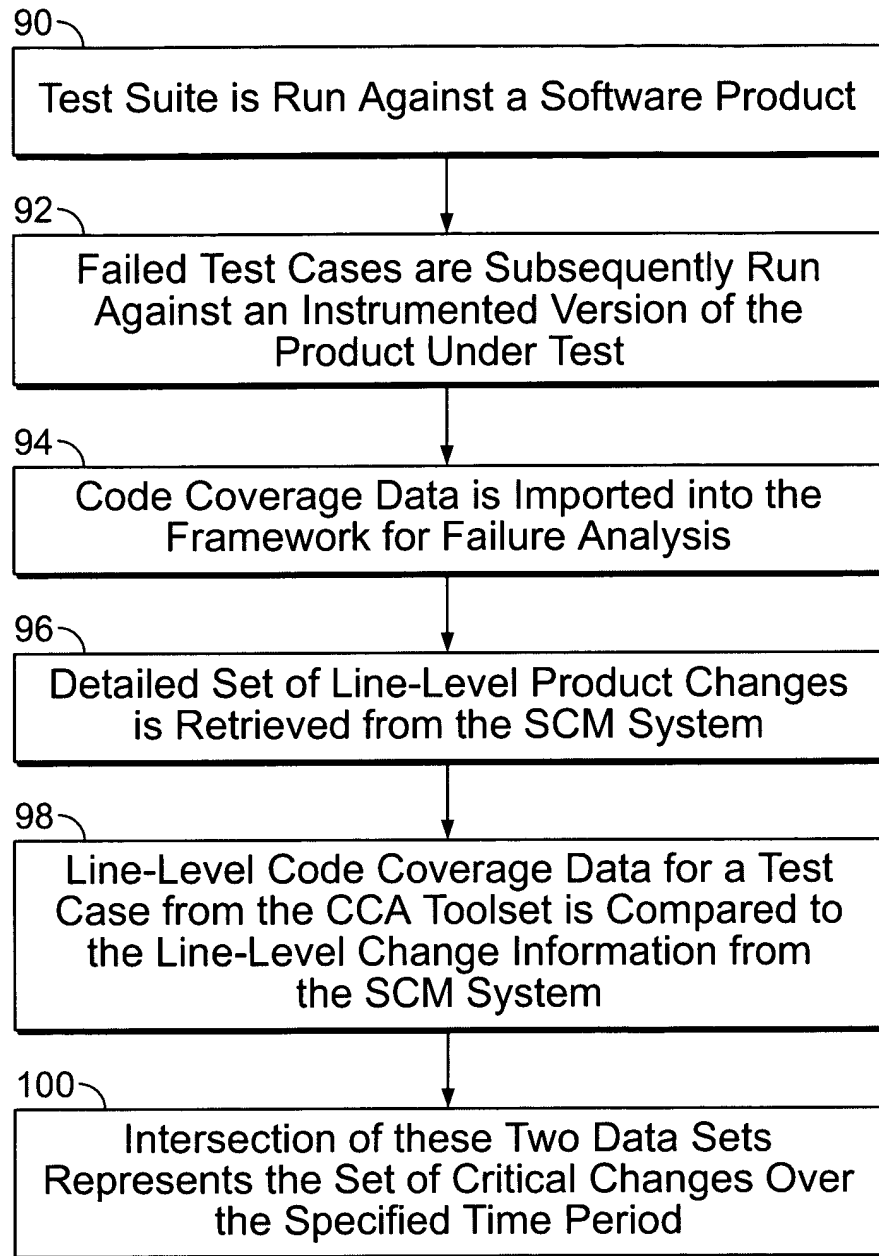


FIG. 7

110-
/**
 * computes the price for the order.
 *
 * @return a <code>float</code> value
 * @exception SnailMailException if an error occurs
 */
public float computePrice() throws SnailMailException {
 float price = 0.00f;

 price = 3 * model.getWeight();

 if (model.getService().equals(Service.ECONOMY)) {
 price = price * 0.80f;
 } else if (model.getService().equals(Service.STANDARD)) {
 price = price * 1.50f;
 } else if (model.getService().equals(Service.EXPRESS)) {
 price = price * 4.00f;
 } else {
 throw new SnailMailException("Service: " + model.getService() +
 "not supported");
 }
} // if..

// buggy code that changes the price
price = price * 1.12f;

return price;
} // M - computePrice

112-

FIG. 8

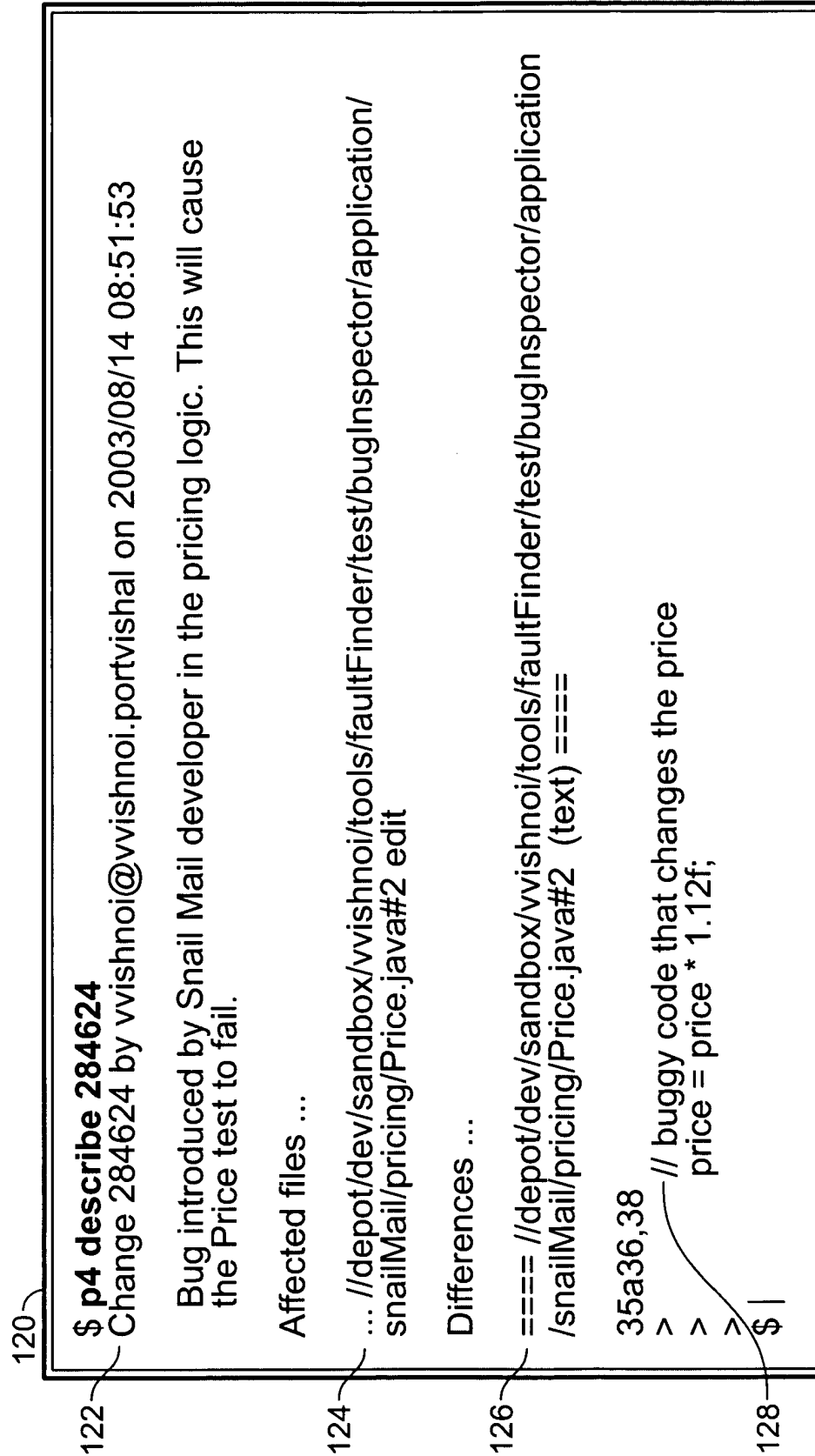


FIG. 9

Title: SYSTEM AND METHOD FOR USING AN AUTOMATED
PROCESS TO IDENTIFY BUGS IN SOFTWARE SOURCE CODE

Inventors: Ashok Banerjee, Michael Cico and Vishal Vishnoi

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Attorney: Karl F. Kenna

Telephone No. (415) 362-3800

130

```
public void testPrice() {
    try {
        PriceModel model = new PriceModel(Service.EXPRESS, 5.00f);
        Price price = new Price(model);
        float cost = price.computePrice();
        this.assertEquals(60.00f, cost, 0.00f);
    } catch (Exception e) {
        log.log(Level.INFO, "test failed", e);
        fail("test failed with exception: " + e);
    } // try..
} // M - testOrder
```

FIG. 10

150

```
ff.bi.client.root=c:/weblogic
ff.bi.relative.source.path=dev/sandbox/vvishnoi/tools
ff.bi.coverage.dir=c:/weblogic/dev/sandbox/vvishnoi/tools/faultFinder/test/
    bugInspector/application/snailMail/test/testruns/second
ff.bi.output.dir=c:/weblogic/dev/sandbox/vvishnoi/tools/build/faultFinder/
    gjtk/bireport
ff.bi.query.type=change
ff.bi.query.param.from=284600
ff.bi.query.param.to=284650
ff.bi.date.pattern=MM/dd/yyyy
```

152

FIG. 12

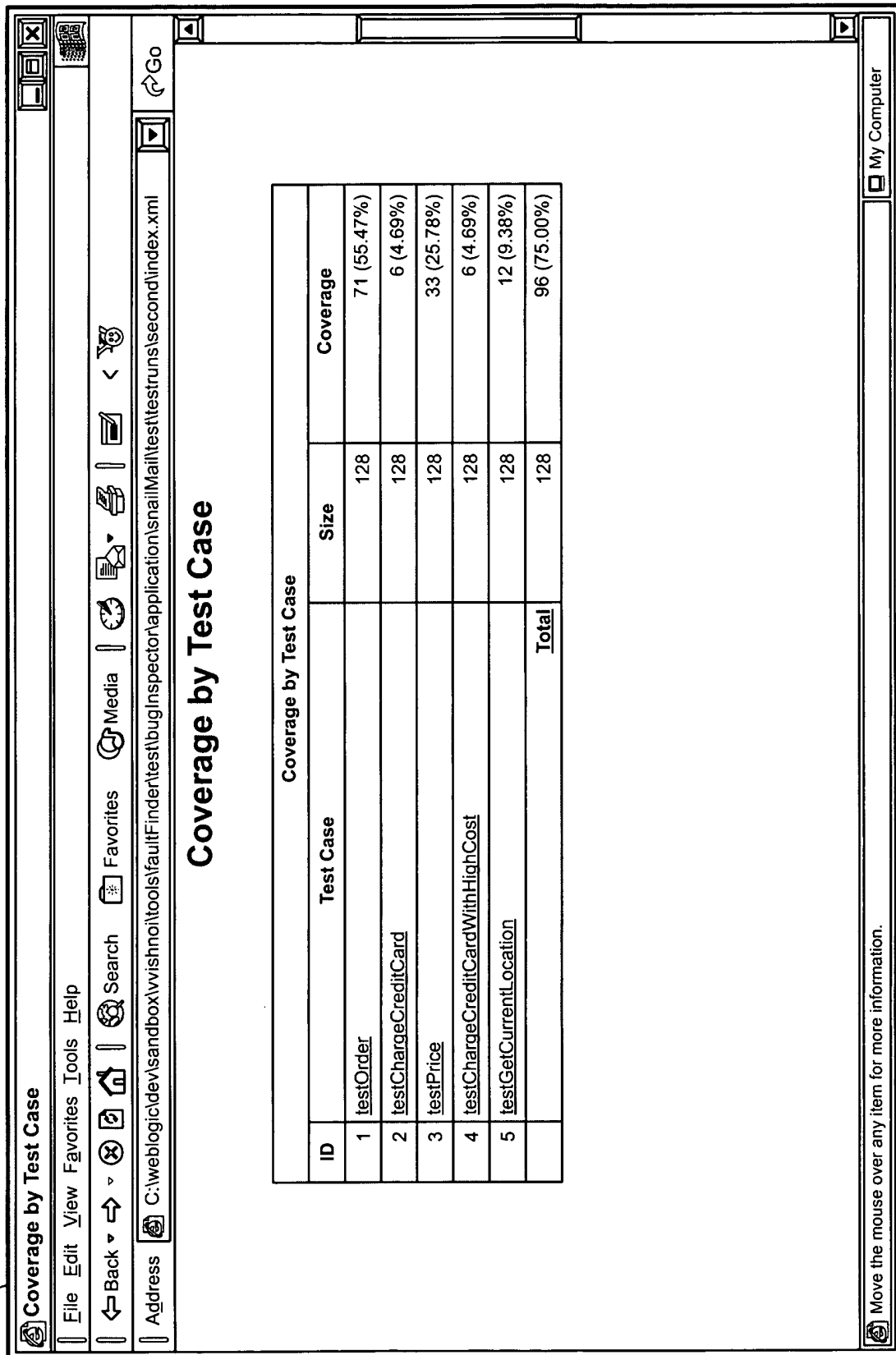


FIG. 11

160

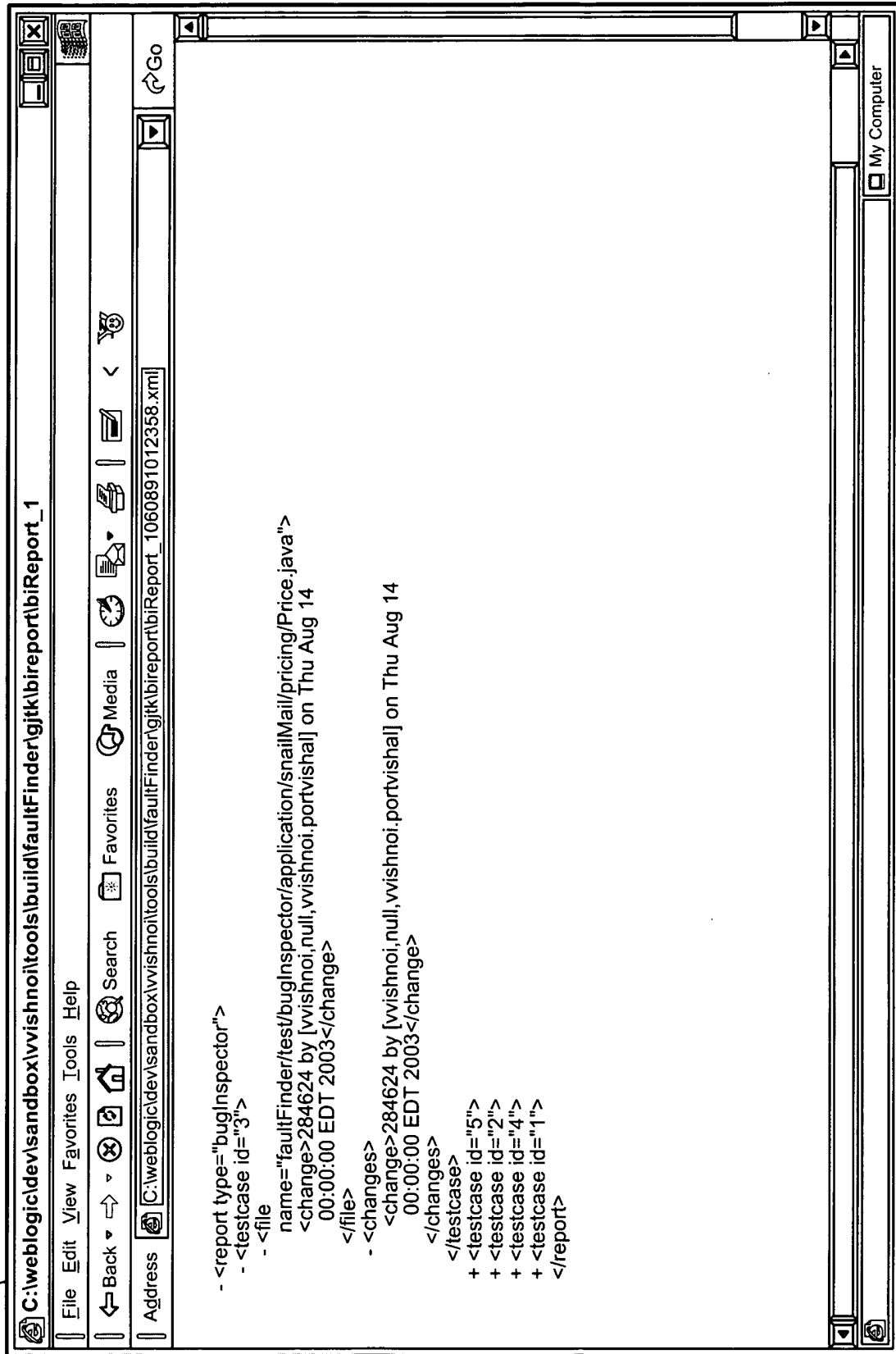


FIG. 13

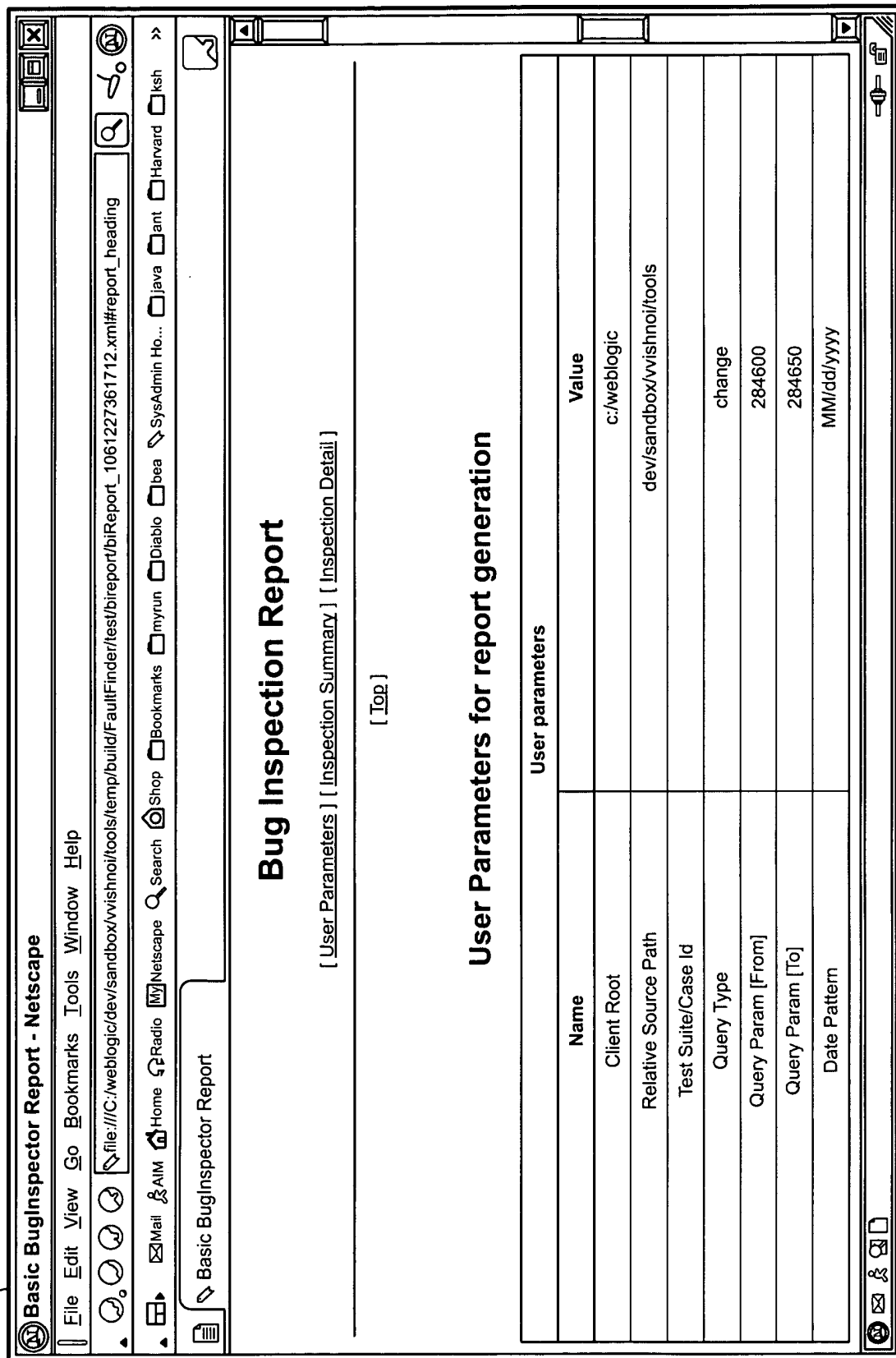


FIG. 14

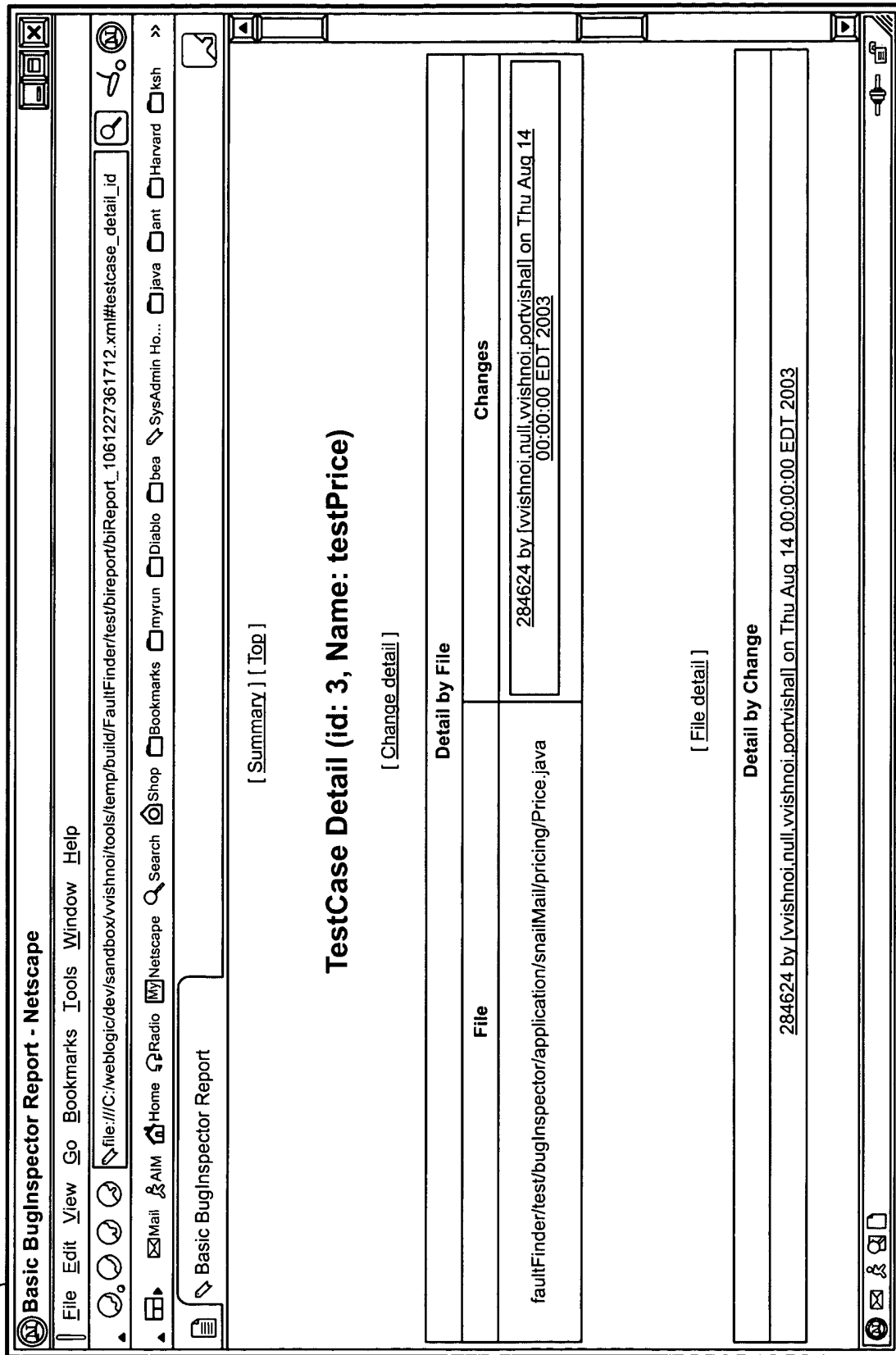


FIG. 15